WESTERN BOUNDARY WATER BULLETIN - 2001 - INTERNATIONAL BOUNDARY AND WATER COMMISSION

CHEMICAL ANAYLSIS OF WATER SAMPLES

The tables below are based on samples collected and analyzed by the California Regional Water Quality Control Board - Colorado River Basin, Region-7. New River Samples prior to 1985 were collected and analyzed by the U.S. Geological Survey. Samples from the New River are taken from the right bank at the road bridge, 137 meters north of the international boundary.

NEW RIVER AT INTERNATIONAL BOUNDARY

SAMPLE TYPE	COMPOSITE	COMPOSITE	COMPOSITE	COMPOSITE	
DATE	Sep. 25, 2001	Oct. 29, 2001	Nov. 27, 2001	Dec. 18, 2001	
PARAMETER	CONCENTRATION	CONCENTRATION	CONCENTRATION	CONCENTRATION	DETECTION LIMIT
Arsenic	6.00 ug/L	5.00 ug/L	5.00 ug/L	3.00 ug/L	2.0 ug/L
Boron	N.A.	N.A.	N.A.	N.A.	0.1 mg/L
Cadmium	N.D.	N.D.	N.D.	N.D.	1.0 ug/L
Chromium	N.D.	N.D.	N.D.	N.D.	10.0 ug/L
Copper	N.D.	N.D.	N.D.	56.0 ug/L	10.0 ug/L
Lead	N.D.	N.D.	N.D.	N.D.	10.0 ug/L
Phenol	N.D.	0.013 mg/L	0.010 mg/L	N.D.	0.002 mg/L
MBAS	2.074mg/L	10.74 mg/L	0.210 mg/L	0.370 mg/L	0.025 mg/L
Zinc	198.0 ug/L	96.0 ug/L	N.D.	212 ug/L	50.0 ug/L
Total Cyanide	0.01 mg/L	0.01 mg/L	0.01 mg/L	N.D.	0.01 mg/L
Total Phosphate(PO4-P)	1.90 mg/L	5.37 mg/L	2.01 mg/L	2.18 mg/L	0.01 mg/L
Nitrate (NO3-N)	N.D.	0.10 mg/L	N.A.	0.30 mg/L	0.20 mg/L
Nitrite (NO2-N)	0.11 mg/L	N.D.	N.A.	0.05 mg/L	0.03 mg/L
Ammonia (NH3-NH4-N)	6.67 mg/L	19.50 mg/L	12.30 mg/L	7.74 mg/L	0.05 mg/L
Total Dissolved Solids	2,470 mg/L	1,640 mg/L	2,750 mg/L	2,480 mg/L	10.0 mg/L
Total Suspended Solids	46.0 mg/L	N.D.	20.0 mg/L	32.0 mg/L	10.0 mg/L
Volatile Suspended Solids	N.A.	N.A.	N.A.	N.A.	

N.D.- None Detected
N.A.- Not Analyzed

SPECIFIC CONDUCTANCE OF WATER SAMPLES

The following table shows specific conductance of individual water samples from the New River in Mexico at the international boundary. Samples were taken by the Mexican Section of the Commission, who also made the determinations.

NEW RIVER AT THE INTERNATIONAL BOUNDARY

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2001

January		March		May		July		September		November	
15	4,400	12	4,900	7	5,100	6	5,000	3	4,400	5	3,200
22	4,600			14	4,500	7	4,200	4	3,900	19	3,900
				21	4,400	16	4,800			26	3,300
				28	4,100	23	4,300				
February		**April**		**June**		**August**		**October**		**December**	
6	4,100	16	4,800	4	6,200	13	4,800	8	3,700	3	4,400
12	4,500	23	4,100	11	5,800	27	4,300	15	4,000	10	3,300
19	4,100	30	4,900	18	5,100	28	3,900	29	4,200	17	4,400
26	4,200			25	4,400						